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Notice of Allowability	Application No.	Applicant(s)	
	10/797,868	THOMAS ET AL.	
	Examiner	Art Unit	
	David D. Le	3681	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--
 All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- 1. ☒ This communication is responsive to application filed on 10 March 2004.
- 2. ☒ The allowed claim(s) is/are 1-14.
- 3. ☒ The drawings filed on 10 March 2004 are accepted by the Examiner.
- 4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 - 1. ☐ Certified copies of the priority documents have been received.
 - 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 - 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 - 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
- 7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date <u>03/10/04</u> | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

DETAILED ACTION

1. This is the first Office action on the merits of Application No. 10/797,868, filed on 10 March 2005. Claims 1-14 are pending.

Documents

2. The following documents have been received and filed as part of the patent application:
 - Information Disclosure Statement, received on 03/10/04

EXAMINER'S AMENDMENT

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Applicant's attorneys, Donald A. Wilkinson and Frank McKenzie, on 21 July 2005.

The application has been amended as follows:

Claim 1:

- Line 8, "connected driveably" has been changed to --driveably connected--;
- Line 9, "connected driveably" has been changed to --driveably connected--;
- Line 10, the second recitation of "the third gear unit" has been changed to --the fourth gear unit--; and
- Line 11, "driveable" has been changed to --driveably--.

Claim 7:

- Line 8, “connected driveably” has been changed to --driveably connected--;
- Line 9, “connected driveably” has been changed to --driveably connected--; and
- Line 11, “driveable” has been changed to --driveably--.

In The Specification:

- Page 6, line 9, “carrier 30” has been changed to --carrier 42--.
- Page 7, line 12, “sun gear 40” has been changed to --ring gear 40--.
- Page 11, line 1, “brake 90” has been changed to --brake 98--.
- Page 11, line 15, “clutch 132” has been changed to --clutch 150--.

Allowable Subject Matter

4. Claims 1-14 are allowed.
5. The following is an examiner’s statement of reasons for allowance:

Claims 1 and 7:

The prior art of record fails to show or render obvious a multiple-speed ratio automatic transmission comprising an input shaft, an output shaft, four planetary gearsets, a coupler, at least one brake, and four clutches, as recited in claims 1 and 7; specifically, the interconnecting relationship between the above mentioned elements and the functions of the coupler, the four clutches and the at least one brake make the claimed multiple-speed ratio automatic transmissions unique.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- Usoro et al. (U. S. Patent No. 6,746,357) teaches a six-speed dual-clutch transmission as shown in Figs. 1a, 3a, and 5a.
- Omote (U. S. Patent No. 5,944,630) discloses a planetary transmission as shown in Fig. 1.
- Lee et al. (U. S. Patent No. 6,758,784) discloses a six-speed dual-clutch planetary transmission as shown in Fig. 2a.
- Murakami et al. (U. S. Patent No. 4,027,551) discloses a speed change gear system as shown in Figs. 2-9.
- M. D. Smith (U. S. Patent No. 3,282,131) discloses a transmission as shown in Fig. 1.
- Japanese Patent No. JP 352077973 A discloses a transmission as shown in Figs. 2-9.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to David D. Le whose telephone number is 571-272-7092. The examiner can normally be reached on Mon-Fri (0700-1530).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles A. Marmor can be reached on 571-272-7095. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Charles A. Marmor 7/22/05
CHARLES A. MARMOR
SUPERVISORY PATENT EXAMINER
ART UNIT 3681